

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2004/000628

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C12N 9/16, A61K 38/46, A61P 35/00
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C12N, A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI DATA, EPO-INTERNAL, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Journal of Lipid Research, Volume 44, 2003, published online April 1, 2003, Rui-Dong Duan et al, "Purification, localization, and expression of human intestinal alkaline sphingomyelinase", pages 1241-1250, see the whole document	1-12,14-17
Y	--	13
Y	The Journal of Biological Chemistry, Volume 276, No. 2, 2001, Rik Gijsbers et al, "Structural and Catalytic Similarities between Nucleotide Pyrophosphatases/Phosphodiesterases and Alkaline Phosphatases", pages 1361-1368, abstract, figure 1	13
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☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search	Date of mailing of the international search report
6 August 2004	10-08-2004

Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86	Authorized officer IDA CHRISTENSEN/BS Telephone No. +46 8 782 25 00
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	The Journal of Biological Chemistry, Volume 278, No. 40, October 2003, Rui-Dong Duan et al, "Identification of Human Intestinal Alkaline Sphingomyelinase as a Novel Ecto-enzyme Related to the Nucleotide Phosphodiesterase Family", pages 38528-38536, the whole document & Database Uniprot [Online], accession no. Q8IUS8, 1 March 2003, retrieved from EBI, 100% identity in 458 aa overlap with SEQ ID NO:4 and 100% identity in 422 aa overlap with SEQ ID NO:1 --	1-17
A	Cancer, Volume 79, No. 3, February 1997, Erik Hertervig et al, "Alkaline Sphingomyelinase Activity Is Decreased in Human Colorectal Carcinoma", pages 448-4453, abstract --	1-17
A	Database GSP, accession no. ABB09008, 23 May 2002, retrieved from EBI, 99,8% identity in 458 aa overlap with SEQ ID NO:4 & WO 0198471 -- -----	1-17

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

- ☒ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format
☒ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed
☒ filed together with the international application in computer readable form
☐ furnished subsequently to this Authority for the purposes of search

2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments: